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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/030,738	04/15/2002	Teppo J Nurminen	MED 2 1115	8284
7.	590 09/05/2003			
Fay Sharpe Fagan Minnich & McKee 1100 Superior Avenue Seventh Floor Cleveland, OH 44114-2518			EXAMINER	
			KIM, SUN U	
			ART UNIT	PAPER NUMBER
			1723	······································
			DATE MAILED: 09/05/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/030,738	NURMINEN ET AL.				
		Examiner	Art Unit				
		John Kim	1723				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address P riod for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)⊠	Responsive to communication(s) filed on 15 A	pril 2002					
2a)□		s action is non-final.	:				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
·	Claim(s) 1-17 is/are pending in the application						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-3 and 5-17</u> is/are rejected.							
7)⊠	7)⊠ Claim(s) <u>4</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>08 January 2002</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received.							
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s)							
1) Notice 2) Notice	ce of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>01</u>	5) Notice of Informal I	y (PTO-413) Paper No(s) Patent Application (PTO-152)				

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1. The disclosure is objected to because of the following informalities:

Following reference to claims in the specification should be removed:

- -Page 3, line 21 refers to claim 1.
- -Page 4, line 23 refers to claim 6.
- -Page 4, line 32 refers to claim 1.

Appropriate correction is required.

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- Claims 9-17 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claimed subject matter in clams 9 and 15 including an inner seal or first seal in fluid communication with the feed liquid flow and an outer seal or second seal in fluid communication with the permeate flow is not described in the specification. Claims 10-14 depend on claim 9. Claims 16-17 depend on claim 15.
- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 1-3 and 5-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 1 and 6 are indefinite for failing to particularly point

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out how means of a gasket or a gasket system defines an internal intermediate space connected to outside. Claims 2-3 depend on claim 1. Claims 7-8 depend on claim 5. Furthermore, claims 7-8 claim separate and distinct methods i.e. method of using the filter unit rather than sealing the filter unit.

- 6. Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- The following is a statement of reasons for the indication of allowable subject matter:

 U.S. Patent No. 4,547,289 (Okano et al) teaches a hollow fiber type filtering unit comprising two

 O-rings (15) i.e. gaskets for sealing joint between the filtering elements and the housing.

 Between the gaskets, there is an intermediate space (16) connected to the outside of the filtering

 unit. A measuring apparatus can be provided to indicate a leak (see figures 1-9; col. 4, line 19 –

 col. 5, line 24). However, Okano et al does not suggest above sealing gaskets with an

 intermediate space in known crossflow ceramic membrane filtering unit having filtering

 elements partly coated with a filtering membrane.
- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent No. 6,361,575 and 5,545,242 teach sealing gaskets with an intermediate space in a depth type filter. U.S. Patent No. 5,254,250 teaches rotary disc type filter for crossflow filtration.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Kim whose telephone number is (703) 308-2350. The examiner can normally be reached on weekdays from 7:00 AM 3:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda Walker, can be reached on (703) 308-0457. The fax phone number for official response is (703) 872-9306.

When sending a draft amendment by fax, please mark the paper as "DRAFT"; otherwise, mark the paper "OFFICIAL". This will expedite the processing of the paper.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0651.

John Kim
Primary Examiner
Art Unit 1723

J. Kim August 28, 2003